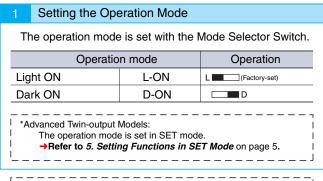
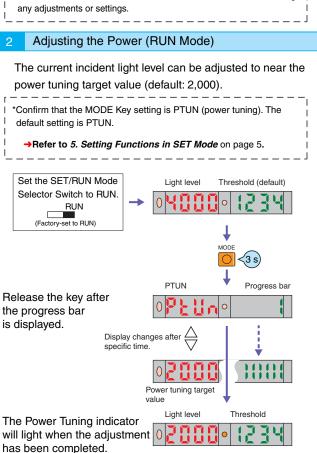
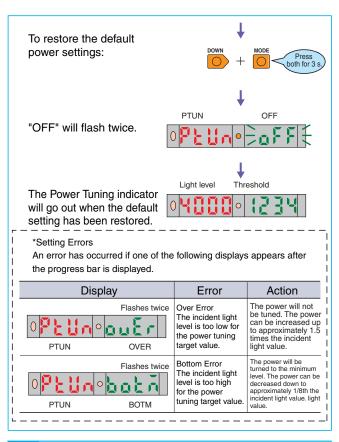
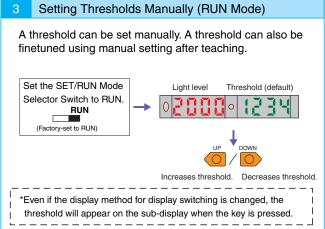
E3C-LDA



*Advanced Twin-output Models (Same for All Adjustments):
Set the Channel Selector Switch to the desired channel before making any adjustments or settings.







Teaching the Threshold (SET Mode)

*There are three methods that can be used for teaching, as described below. Use the method most suitable for the application.

*Teaching (with/without workpiece teaching and automatic teaching) can be performed in RUN mode.

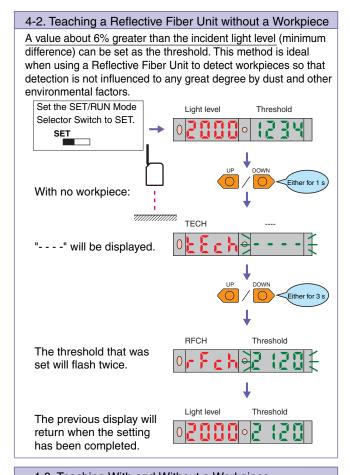
For operating procedures, refer to *Instruction Sheet* provided with the product.

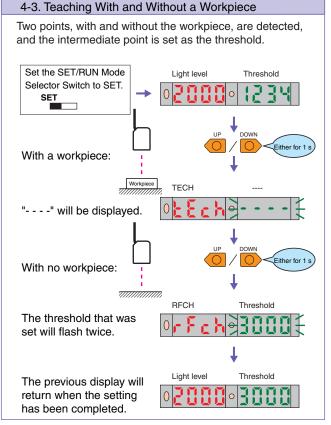
*An error has occurred if OVER, LO, or NEAR is displayed on the sub-display. Repeat the operation from the beginning.

4-1. Teaching a Through-beam Fiber Unit without a Workpiece A value about 6% less than the incident light level (minimum difference) can be set as the threshold. This method is ideal when detecting very small differences in light level, such as when detecting very fine workpieces or transparent workpieces with a Through-beam (retroreflective) Unit. Set the SET/RUN Mode Liaht level Selector Switch to SET. SET With no workpiece: TECH "- - - - " will be displayed. To RUN THRU Threshold The threshold that was set will flash twice. Light level Threshold The previous display will

return when the setting

has been completed.





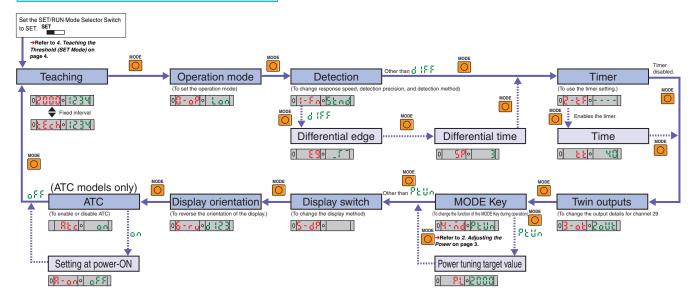
5 Setting Functions in SET Mode

Twin-output and ATC Models

E3C-LDA11/LDA41/LDA6/LDA8 E3C-LDA11AT/LDA41AT/LDA6AT/LDA8AT *The function transition boxes show the default settings.

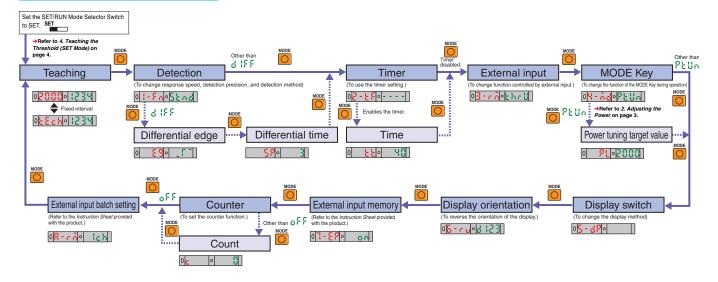
Enter the functions by pressing the MODE Key.

To set the functions, refer to the list of functions and use the UP and DOWN Keys.



External Input Models

E3C-LDA21/LDA51/LDA7/LDA9



Functions



UP DOWN Use the UP and DOWN Keys to change the settings.

Function	Setting (display)	Description
Detection	Super-high-speed: 585, High-speed: 85, Standard: 58nd, High-precision: 8785, Differential operation: d 188 (advanced models only)	Used to increase response speed and detection precision.
Differential edge (differential operation selected)	Single edge: _ f , Double edge: _ fi _	Used to set the edge to be detected.
Differential time	Single edge···250 μs: ¼, 500 μs: ϟ, 1 ms: ȝ, 10 ms: Ⴏ, 100 ms: ϛ, Double edge···500 μs: ϟ, 1 ms: ȝ, 20 ms: Ⴏ, 200 ms: ϛ	Used to set the differential response time.
Timer	Timer disabled:, OFF-delay timer: oFFd, ON-delay timer: on-d, One-shot timer: (5h)	Used to enable or disable timers.
Time (timer enabled)	1 to 20 ms: 1-ms increments, 20 to 200 ms: 5-ms increments, 200 ms to 1 s: 100-ms increments, 1 to 5 s: 1-s increments	Used to change timer setting when timer is enabled. The timer can be set from 1 to 5000 ms.
MODE Key	Executes power tuning: Pt Un, Executes a zero reset: Un 5t, With/without workpiece teaching: Ph L , Automatic teaching: RUt o	Used to change the function of the MODE Key during operation.
Power tuning target value (performing power tuning)	Setting range: 100 to 3,900 (increments of 100) Maximum power M: FULL	Used to set the target value during power tuning.
Display switch	Light level Threshold	Used to display the incident light level and the threshold.
	0 P (2 3 ○ 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Used to display the incident light level as a percentage of the threshold and the threshold.
	PEAK BOTM Fixed interval OB (2023 5)	Used to display the peak and bottom levels of incident light within a set time. (Updated every 2 s.)
	L-PE D-BT	Used to display the incident light peak level and no incident light bottom level. (Refreshed when output turns ON or OFF.)
	Detection status	Analog bar display. The current detection status is displayed as an analog bar. The bar will lengthen from the right as ON status is reached. (ON: Red; OFF: Green)
	Current light level PEAK Fixed interval Current light level Peak light level	Used to display the current incident light level and the peak incident light level. Display changes at a fixed interval.
	Light level Channel	Used to display the incident light level and the channel.
	Count (For external input models only)	Used to display the counter value.
Display orientation	Normal display: d 123, Up/down reversed display: E21 P	Used to reverse the orientation of the display.
Operation mode * (twin-output models only)	Light ON: Lon, Dark ON: don,	→Refer to 1. Setting the Operation Mode on page 3.
Twin outputs (twin-output models only)	Output for each channel: 20 UE, Output if level is between the two thresholds: Rr ER, Self-diagnosis output: SELF	Used to change the output for channel 2. This setting is disabled if differential operation is set for the detection function. (Alarm outputs are always used for differential operation.)
ATC (ATC models only)	ATC enabled: an, ATC disabled: aFF	Used to enable or disable ATC.
Setting at Power-ON (ATC ON)	No setting: ወዶዶ, ATC start processing: ቫቴሬ, Power tuning and ATC start processing: ፆኒቨኒ	Used to set the processing to be performed when the power is turned ON.
External input (external input models only)	Thru-beam, no-workpiece teaching: <code>khru,</code> , Reflective, no-workpiece teaching: <code>rfck,</code> With/Without-workpiece teaching: <code>?Pnk,</code> Automatic teaching: <code>Ruko,</code> Power tuning: <code>Pkuo,</code> Zero reset: <code>@r5k,</code> Light OFF: <code>koff,</code> Counter reset: <code>cr5k,</code>	Used to change function controlled by external input. (Refer to Instructions provided with the product.)
External input memory (external input models only)	Write results to EEPROM: an, Don't write results: aff	Used to set writing the results. (Refer to Instructions provided with the product.)
Counter (external input models only)	Counter disabled: $_{\Omega}$ F F, Count incremented when output turns ON: $_{\Omega}$ $_{\Omega}$ Count decremented when output turns ON: $_{\Omega}$ $_{\Omega}$	Used to set the counter function.
Count	Setting range: 1 to 9,999,999	Used to set the counter value when the counter function is enabled.
	All linked sensors: RLL	Used to set linked Amplifiers at the same time using an external input.
The energtion made and ti	mer function can be set for each channel enecified using the Channel	Coloator Switch

^{*}The operation mode and timer function can be set for each channel specified using the Channel Selector Switch. The settings for other functions will be the same for channel 1 and channel 2.

6 Convenient Functions

